Title (en)

DESIGN SIMULATION USING PARALLEL PROCESSORS

Title (de)

DESIGNSIMULATION ANHAND PARALLELER PROZESSOREN

Title (fr)

SIMULATION DE CONCEPTION UTILISANT DES PROCESSEURS PARALLÈLES

Publication

EP 2257874 A2 20101208 (EN)

Application

EP 09724182 A 20090325

Priority

- IL 2009000330 W 20090325
- US 3981708 P 20080327
- US 7946108 P 20080710
- US 8680308 P 20080807
- US 11067608 P 20081103

Abstract (en)

[origin: WO2009118731A2] A method for design simulation includes partitioning a verification task of a design (100) into a first plurality of atomic Processing Elements (PEs - 108) having execution dependencies (112), each execution dependency specifying that a respective first PE is to be executed before a respective second PE. The method further includes computing an order for executing the PEs on a multiprocessor device (32), which includes a second plurality of processors (44) operating in parallel and schedules the PEs for execution by the processors according to a built-in scheduling policy. The order induces concurrent execution of the PEs by different ones of the processors without violating the execution dependencies, irrespective of the scheduling policy. The PEs are executed on the processors in accordance with the computed order and the scheduling policy, to produce a simulation result. A performance of the design is verified responsively to the simulation result.

IPC 8 full level

G06F 17/50 (2006.01); **G06F 9/45** (2006.01)

CPC (source: EP US)

G06F 8/45 (2013.01 - EP US); **G06F 30/327** (2020.01 - US); **G06F 30/33** (2020.01 - EP US); **G06F 30/3308** (2020.01 - US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2009118731 A2 20091001; **WO 2009118731 A3 20100311**; EP 2257874 A2 20101208; EP 2257874 A4 20130717; US 10509876 B2 20191217; US 2010274549 A1 20101028; US 2014379320 A1 20141225; US 2016019326 A1 20160121; US 8751211 B2 20140610; US 9087166 B2 20150721

DOCDB simple family (application)

IL 2009000330 W 20090325; EP 09724182 A 20090325; US 201414262815 A 20140428; US 201514729087 A 20150603; US 81031009 A 20090325